			UNEVERSITY OF EAST SARAJEVO Faculty of Mechanical Engineering Study program: Mechanical Engineering/ Engineering design and applications mechanics 2 ST LEVEL OF STUDIES 1 ST YEAR								
Course title		Denerteer			ODS OF PRODUC		MENT				
Department		Departmer			and Engineering						
C	ode			irse status	Semes	ster		ECTS			
Professor	-	PhD Biliana	Marković, fu	andatory				6			
Teaching assista	ant			aching assistant							
	rs (per week	Individual stu		tudent workload semester)	dent workload (in hours in semester)		Coefficient of student workload S _o				
L	L E		LE	L E		LE		So			
3	2		0	3*15*S₀	2*15*S₀	0*15*S₀		1.4			
		hing hours ir 5 + 0*15 = 7 To		2*15*S₀ + 0*1							
Student learning objectives	e main goal I technical s nerical analy ring the cour duct develo	Total course workload: 75 + 105 = 180 hours in semester n goal of this course is to acquire basic knowledge of modern methods in product development nnical systems, from basic principles in product development, to rapid prototyping, including al analysis and optimization methods of machine structures ne course, the student acquires: a broad overview of all current, currently available methods of development, understands the purpose of application, choice, as well as the method of									
Conditionality				ation, transmissions and shortcomings, and basic strategies for optimizing machine structures.							
Teaching methods	Ŭ	s, exercises, graphic exercises, computer exercises, colloquiums									
Content of the course by weeks	- Pr - P dev con - C qua - E star des - R tecl tecl tecl tecl - L me stra - O - C Q nun Pra	Theoretical classes: - Basic principles of product development, new trends in product development, - Product life, - Procedures and stages of product development: sequential and integrated approach to product development, process flow constructions, types of constructions, - Customer requirements management (QFD) methods, method display, application, application example, quality house, - ECO design, basic terms and definitions, task and approaches, integration of ISO 14001 and Eco standards design, ecological labels, example of application of Eco design, - Rapid prototyping, significance and development, definition and basic processes, types technologies, - Light constructions (LW / light weight design), definitions, basic concepts, motives of application, methods, strategies, material selection, application examples. - Other methods of product development, basic characteristics and conditions of application, - Optimization of machine structures, settings, models, conditions, programming, numerical solution, numerical methods, Practical teaching It consists of exercises (auditory or laboratory) and project assignment									
Authors			Name of the publication, publisher Year		r	Pages					
				Additional lite	araturo			-			
Authors			Additional literature Name of the publication, publisher			Yea	Pages				
				-	-			-			
Obligations,			Туре	of student eval	uation		Points	Percentage			
forms of knowledge chec and assessment				atter	ndance at lectures Colloqu	/ exercises ium I and II	2,5+2,5 15+20	5% 35%			

	Seminar paper	30	30%			
	final exam (oral / written)	30	30%			
	Total	100	100 %			
Web page	http://www.maf.ues.rs.ba/PDF_za_sajt/Elaborat%202%20ciklus%20Masinski%20fakultet%20IS%20KONA					
	CAN.pdf (in Serbian language)					
Date of						
certification						